2011 Consumer Confidence Report

Water System Name: Keeler CSD Report Date: June 2012

We test the drinking water quality for many constituents as required by State and Federal Regulations. This report shows the results of our monitoring for the period of January 1 - December 31, 2011.

Este informe contiene información muy importante sobre su agua potable.

Tradúzcalo ó hable con alguien que lo entienda bien.

Type of water source(s) in use: Groundwater well.

Name & location of source(s): Well 01 is located near the community of Keeler.

Drinking Water Source Assessment information: The Source Water Assessment was conducted in May 2002. The source is considered most vulnerable to the following activities not associated with any detected contaminants: transportation corridors and historic waste dumps/landfills. A complete copy of the source assessment may be viewed at Inyo County Environmental Health Services, 207 W. South Street, Bishop, CA, or call (760) 873-7865.

Time and place of regularly scheduled board meetings for public participation: 2nd Tuesday each month at firehouse

For more information, contact: Myrna Tew, Certified Water Operator Phone: (760) 876-5084

TERMS USED IN THIS REPORT:

Maximum Contaminant Level (MCL): The highest level of a contaminant that is allowed in drinking water. Primary MCLs are set as close to the PHGs (or MCLGs) as is economically and technologically feasible. Secondary MCLs are set to protect the odor, taste, and appearance of drinking water.

Maximum Contaminant Level Goal (MCLG): The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs are set by the U.S. Environmental Protection Agency (USEPA).

Public Health Goal (PHG): The level of a contaminant in drinking water below which there is no known or expected risk to health. PHGs are set by the California Environmental Protection Agency.

Maximum Residual Disinfectant Level (MRDL): The level of a disinfectant added for water treatment that may not be exceeded at the consumer's tap.

Maximum Residual Disinfectant Level Goal (MRDLG): The level of a disinfectant added for water treatment below which there is no known or expected risk to health. MRDLGs are set by the U.S. Environmental Protection Agency.

Primary Drinking Water Standards (PDWS): MCLs and MRDLs for contaminants that affect health along with their monitoring and reporting requirements, and water treatment requirements.

Secondary Drinking Water Standards (SDWS): MCLs for contaminants that affect taste, odor, or appearance of the drinking water. Contaminants with SDWSs do not affect the health at the MCL levels.

Treatment Technique (TT): A required process intended to reduce the level of a contaminant in drinking water.

Regulatory Action Level (AL): The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.

Variances and Exemptions: Department permission to exceed an MCL or not comply with a treatment technique under certain conditions.

ND: not detectable at testing limit

ppm: parts per million or milligrams per liter (mg/L)

ppb: parts per billion or micrograms per liter (ug/L)

ppt: parts per trillion or nanograms per liter (ng/L)

pCi/L: picocuries per liter (a measure of radiation)

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

Contaminants that may be present in source water include:

- *Microbial contaminants*, such as viruses and bacteria, that may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- *Inorganic contaminants*, such as salts and metals, that can be naturally-occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- Pesticides and herbicides, that may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.
- Organic chemical contaminants, including synthetic and volatile organic chemicals, that are byproducts of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, agricultural application, and septic systems.
- Radioactive contaminants, that can be naturally-occurring or be the result of oil and gas production and mining activities

In order to ensure that tap water is safe to drink, the USEPA and the state Department of Health Services (Department) prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. Department regulations also establish limits for contaminants in bottled water that must provide the same protection for public health.

Tables 1, 2, 3, 4, 5, and 6 list all of the drinking water contaminants that were detected during the most recent sampling for the constituent. The presence of these contaminants in the water does not necessarily indicate that the water poses a health risk. The Department allows us to monitor for certain contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of the data, though representative of the water quality, are more than one year old.

TABLE 1 - SAMPLING RESULTS SHOWING THE DETECTION OF COLIFORM BACTERIA									
Microbiological Contaminants	Highest No. of detections	No. of months in violation	MCL		MCLG	Typical Source of Bacteria			
Total Coliform Bacteria	(In a mo.) <u>0</u>	0	More than 1 sample in a month with a detection		0	Naturally present in the environment			
Fecal Coliform or E. coli	(In the year)	0	A routine sample and a repeat sample detect total coliform and either sample also detects fecal coliform or <i>E. coli</i>		0	Human and animal fecal waste			
TABLE 2 - SAMPLING RESULTS SHOWING THE DETECTION OF LEAD AND COPPER									
Lead and Copper	No. of samples collected	90 th percentile level detected	No. sites exceeding AL	AL	PHG	Typical Source of Contaminant			
Lead (ppb) 6/17/10	5	1.1	0	15	0.2	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits			
Copper (ppm) 6/17/10	5	0.013	0	1.3	0.3	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives			

^{*}Any violation of an MCL or AL is marked with an asterisk. Additional information regarding the violation is provided later in this report.

	TABLE 3 - S	SAMPLING	G RESULTS 1	FOR SODIU	JM AND HA	RDNESS	
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL	PHG (MCLG)	Typical Source of Contaminant	
Sodium (ppm)	3/24/04 to 11/23/04	158	150 to 170	none	none	Generally found in ground & surface water	
Hardness (ppm)	3/24/04 to 11/23/04	373	370 to 380	none	none	Generally found in ground & surface water	
TABLE 4 - DE	TECTION OF	CONTAMI	NANTS WIT	H A <u>PRIM</u>	ARY DRINK	ING WATER STANDARD	
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL [MRDL]	PHG (MCLG) [MRDLG]	Typical Source of Contaminant	
*Arsenic (ppb)	2011 POU Data	avg = 6.0	<2 to 48	10	0.004	Erosion of natural deposits	
*Arsenic (ppb)	2011 well data	avg = 74	63 to 88	10	0.004	Erosion of natural deposits	
Fluoride (ppm)	3/24/04 to 11/23/04	1.2	1.1 to 1.2	2.0	1	Erosion of natural deposits	
Gross Alpha (pCi/L)	3/22/10	1.42	n/a	15	(0)	Erosion of natural deposits	
TABLE 5 - DETI	ECTION OF C	ONTAMIN	ANTS WITH	A SECON	DARY DRIN	KING WATER STANDARD	
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL	PHG (MCLG)	Typical Source of Contaminant	
Chloride (mg/L)	3/24/04 to 11/23/04	112	110 to 120	500	n/a	Leaching from natural deposits	
Manganese (ppb)	3/24/04 to 11/23/04	35	20 to 50	50	n/a	Leaching from natural deposits	
Odor (units)	3/24/04 to 6/7/04	1	n/a	3	n/a	Naturally-occurring organic materials	
Specific Conductance (uS/cm)	3/24/04 to 11/23/04	1380	1300 to 1400	1600	n/a	Substances that form ions when in water	
Sulfate (mg/L)	3/24/04 to 11/23/04	110	n/a	500	n/a	Leaching from natural deposits	
Total Dissolved Solids (mg/L)	3/24/04 to 11/23/04	835	810 to 850	1000	n/a	Leaching from natural deposits	
	TABLE 6 -	DETECTI	ON OF UNR	EGULATEI	D CONTAMI	INANTS	
Chemical or Constituent (and reporting units)	Sample Date	ple Date Level Detected		ification Level	Health Effects Language		
Boron (ppm)	8/2/04 to 11/23/04	avg=2 range f 2.4 to	rom	1		The babies of some pregnant women who drink water containing boron in excess of the notification level may have an increased risk of developmental effects, based o studies in laboratory animals.	

^{*}Any violation of an MCL, MRDL, or TT is asterisked. Additional information regarding the violation is provided later in this report.

Additional General Information on Drinking Water

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the USEPA's Safe Drinking Water Hotline (1-800-426-4791).

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. USEPA/Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline (1-800-426-4791).

Our water contains an average fluoride level of 1.2 mg/L. You may want to contact your child's pediatrician and/or dentist with this information to help them determine if fluoride supplements or treatments are needed.

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. The Keeler CSD water system is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at http://www.epa.gov/safewater/lead.

Summary Information for Violation of a MCL, MRDL, AL, TT, or Monitoring and Reporting Requirement

VIOLATION OF A MCL, MRDL, AL, TT, OR MONITORING AND REPORTING REQUIREMENT							
Violation	Explanation	Duration	Actions Taken to Correct the Violation	Health Effects Language			
Well 01 exceeded the arsenic MCL of 10 ppb.	The Keeler CSD water system does not have approved treatment installed to remove arsenic to below the MCL.	Currently still in violation. In violation of the arsenic MCL for all four quarters of 2011.	Currently researching treatment and alternative source supply options. Using Point of Use treatment devices on a temporary basis until permanent solution can be achieved.	Some people who drink water containing arsenic in excess of the MCL over many years may experience skin damage or circulatory system problems, and may have an increased risk of getting cancer.			
Monitoring & Reporting violation for Total Coliform Rule.	The laboratory failed to collect a routine bacteriological sample in February 2011.	February 2011	A routine sample was collected in March 2011.	The health effects of this violation are unknown.			